

For Analysis of  
Extractables & Leachables

equitron®

**AUTOCLAVE STELLA Series**

Analysis as per USP 660

**EXTRACTABLES**

**LEACHABLES**



# Integrated technologies to meet the most exacting sterilisation requirements

**EQUITRON STELLA Series Autoclaves** are ideal for tests involving controlled progressive heat up and cooling applications. Ideal for Extractable & Leachable tests in Pharma, QC, QA, R&D Labs, Production and Bio-Labs for all situations requiring critical control over the entire process of sterilisation.

With five decades of experience in steam pressure sterilisation, Medica's EQUITRON STELLA Series top loading autoclave is yet another addition targeted for those mandated tests.

## Controlled steam injection to attain the critical requirements of USP 660

Leak proof sealing with registered gasket design

Over pressure safety

Dual scales of psi and kPA with temperature readout on pressure gauge

Safe and sturdy chamber manufactured to ASME standards in SS 304

Electric interlock for lid lock safety

Electrical on/off safety switch

External panels also of SS 304 and heat cured epoxy coated for abrasion resistance and durable finish

Convenient and fast single lever locking of lid

Effortless lifting of lid with assisted support

Automatic purging and exhaust

Touchscreen PLC for accurate temperature control, built in recipes, power failure restore and password protection upto 3 levels

User settable alphanumeric batch number and operator name.

Online documenting of 1 + 2 temperature + 1 pressure channel +  $F_0$  cumulation of 1 temp channel to external Printer (Printer in scope of standard supply)

Service and calibration reminders

Easy manoeuvrability and placement



**SAFETY**

- Over pressure safety
- Lid locked when under pressure
- Electric interlock for lid lock safety
- Electrical safety by MCB
- Audio and visual alarms for sensor open and over pressure

**UTILITIES REQUIRED**

- Electric Supply:** 230 VAC, 50 Hz, single phase
- Distilled/purified water line with maximum pressure of 0.5 bar
- Exhaust / drain line:** capable of handling steam temperatures up to 125°C. Drain line should be at a level below the exhaust pipe of the Autoclave.

**Specimen of the Documentation Cycle**

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*****
MEDICA INSTRUMENT MANUFACTURING COMPANY
DATE: 28-11-2015      CUSTOMER: MEDICA      BATCH NO:
START TIME:16:55:24      RECIPE: MEDIA      HOLD TIME: 20 min
SET TEMP: 100.0 DEG C      +VE Pulsing:00
EQUIPMENT NO:
OPERATOR: ABC
*****
Time      A)DEG C      (B)DEG C      (C)DEG C      (F) mBar      (F0)      STATUS
17:02:07      89.4      89.8      89.6      1010      0.00      HEATING
17:03:07      95.4      95.4      96.2      1018      0.00      HEATING
17:04:07      98.3      98.5      99.0      1021      0.00      HEATING
17:05:07      100.5      100.6      100.6      1068      0.00      HEATING
17:06:07      101.2      101.4      101.2      1099      0.00      HEATING
17:07:07      102.0      102.3      102.2      1130      0.00      HEATING
17:08:07      103.1      103.3      103.2      1175      0.00      HEATING
17:09:07      104.1      104.4      104.2      1211      0.00      HEATING
17:10:07      105.1      105.4      105.4      1262      0.00      HEATING
17:11:07      105.9      106.2      106.1      1297      0.00      HEATING
17:12:07      107.0      107.3      107.1      1341      0.00      HEATING
17:13:07      108.0      108.3      108.3      1391      0.00      HEATING
17:14:07      109.0      109.2      109.2      1434      0.00      HEATING
17:15:07      110.1      110.3      110.1      1484      0.00      HEATING
17:16:07      111.1      111.2      111.2      1533      0.00      HEATING
17:17:07      111.9      112.1      112.0      1574      0.00      HEATING
17:18:07      113.0      113.2      113.0      1633      0.00      HEATING
17:19:07      114.1      114.2      114.0      1691      0.00      HEATING
17:20:07      115.3      115.4      115.1      1750      0.00      HEATING
17:21:07      115.9      116.0      116.0      1793      0.00      HEATING
17:22:07      117.0      117.2      117.0      1855      0.00      HEATING
17:23:07      118.0      118.1      118.0      1914      0.00      HEATING
17:24:07      119.1      119.3      119.0      1984      0.00      HEATING
17:25:07      119.8      119.9      119.6      2033      0.00      HEATING
17:25:50      120.5      120.7      120.6      2075      0.00      STERILE
17:26:50      121.5      121.5      121.5      2137      1.15      STERILE
17:27:50      121.2      121.3      121.3      2124      2.22      STERILE
17:28:50      121.4      121.6      121.4      2136      3.37      STERILE
17:29:50      121.4      121.4      121.3      2126      4.46      STERILE
17:30:50      121.3      121.3      121.3      2123      5.56      STERILE
17:31:50      121.4      121.5      121.4      2130      6.68      STERILE
17:32:50      121.4      121.5      121.4      2128      7.78      STERILE
17:33:50      121.4      121.5      121.4      2130      8.90      STERILE
17:34:50      121.6      121.7      121.5      2135      10.05      STERILE
17:35:50      121.5      121.5      121.4      2130      11.17      STERILE
17:36:50      121.5      121.5      121.4      2132      12.32      STERILE
17:37:50      121.4      121.5      121.5      2128      13.47      STERILE
17:38:50      121.4      121.5      121.4      2128      14.62      STERILE
17:39:50      121.5      121.7      121.6      2134      15.79      STERILE
17:40:50      121.3      121.4      121.4      2120      16.89      STERILE
17:41:50      121.3      121.3      121.3      2118      17.96      STERILE
17:42:50      121.4      121.6      121.4      2132      19.11      STERILE
17:43:50      121.4      121.5      121.4      2127      20.23      STERILE
17:44:50      121.3      121.3      121.3      2121      21.30      STERILE
17:45:50      121.5      121.6      121.5      2133      22.45      STERILE
17:46:50      121.0      121.0      121.0      2095      22.45      EXHAUST
17:47:50      120.5      120.6      120.3      2065      22.45      EXHAUST
17:48:50      120.1      120.1      120.1      2038      22.45      EXHAUST
17:49:50      119.5      119.6      119.6      1998      22.45      EXHAUST
17:50:50      119.0      119.2      119.1      1968      22.45      EXHAUST
17:51:50      118.5      118.5      118.6      1933      22.45      EXHAUST
17:52:50      118.0      118.2      118.1      1908      22.45      EXHAUST
17:53:50      117.6      117.7      117.6      1878      22.45      EXHAUST
17:54:50      117.0      117.2      117.1      1848      22.45      EXHAUST
17:55:50      116.3      116.6      116.6      1815      22.45      EXHAUST
17:56:50      116.0      116.1      116.2      1786      22.45      EXHAUST
17:57:50      115.6      115.6      115.6      1758      22.45      EXHAUST
17:58:50      115.0      115.1      115.2      1726      22.45      EXHAUST
17:59:50      114.5      114.6      114.6      1698      22.45      EXHAUST
18:00:50      114.0      114.1      114.2      1671      22.45      EXHAUST
18:01:50      113.5      113.6      113.6      1641      22.45      EXHAUST
18:02:50      113.0      113.1      113.3      1617      22.45      EXHAUST
18:03:50      112.5      112.6      112.7      1588      22.45      EXHAUST
18:04:50      112.1      112.2      112.2      1563      22.45      EXHAUST
18:05:50      111.6      111.7      111.8      1539      22.45      EXHAUST
18:06:50      111.1      111.1      111.3      1510      22.45      EXHAUST
18:07:50      110.6      110.7      110.7      1485      22.45      EXHAUST
18:08:50      110.1      110.1      110.3      1461      22.45      EXHAUST
18:09:50      109.6      109.6      109.8      1436      22.45      EXHAUST
18:10:50      109.1      109.3      109.4      1415      22.45      EXHAUST
18:11:50      108.6      108.7      108.8      1390      22.45      EXHAUST
18:12:50      108.1      108.1      108.2      1365      22.45      EXHAUST
18:13:50      107.6      107.7      107.8      1341      22.45      EXHAUST
18:14:50      107.1      107.2      107.3      1319      22.45      EXHAUST
18:15:50      106.7      106.9      107.0      1304      22.45      EXHAUST
18:16:50      106.1      106.2      106.3      1274      22.45      EXHAUST
18:17:50      105.7      105.8      105.9      1258      22.45      EXHAUST
18:18:50      105.3      105.3      105.5      1239      22.45      EXHAUST
18:19:50      104.7      104.9      104.9      1216      22.45      EXHAUST
18:20:50      104.2      104.3      104.4      1193      22.45      EXHAUST
18:21:50      103.8      103.8      103.9      1174      22.45      EXHAUST
18:22:50      103.0      103.1      103.3      1145      22.45      EXHAUST
18:23:50      102.7      102.8      102.9      1131      22.45      EXHAUST
18:24:50      102.4      102.4      102.5      1118      22.45      EXHAUST
18:25:50      101.6      101.6      101.7      1097      22.45      EXHAUST
18:26:50      101.4      101.5      101.5      1081      22.45      EXHAUST
18:27:50      100.6      100.7      100.8      1061      22.45      EXHAUST
18:28:50      100.4      100.5      100.6      1042      22.45      EXHAUST
*****
*****END OF CYCLE*****
*****
CHECKED BY:
    
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Well ventilated room with space of at least 600 mm on right and rear side.

**Printer:** Epson LX 300/310 printer.



**DOCUMENTING FEATURES**

- Real time printing of three temperature sensors along with F<sub>0</sub> summation, plus pressure channel
- Printing in smart tabular format with date, time, batch number, operator name and status
- Prints online to external Epson LX-300+II DMP (part of standard supply)
- PC connectivity (offline)
- Enables authentic documenting of every autoclave cycle

## Technical Data

Model	Unit	#7441EL
Capacity (Chamber / Effective)	L	135 / 113
Working Chamber Dimensions (WxDxH)	mm	Ø 450 x 710
Outer Dimensions (WxDxH + Lid Open)	mm	740 x 730 x 1120 + 480
Loading Type	-	Top
Heater Power	kW	3.5
Carrier Dimensions	mm (nos)	Ø 400 x 330 (2)
Dressing Drum (Optional)	mm (inch) part code	Ø 380 x 300 (15x12") #S0082-25 (2 required)
Temperature Range upto	°C	122.0
Operating Pressure	psi / kPA	16 / 110.3
Duty Cycle	-	Three cycles in eight hour shift with a 30 minute cooling period
Packing Dimensions (WxDxH)	mm	970 x 790 x 1350
Gross Weight	kg	156

**Our Other Products:** Autoclave Vertical: Standard / PAD / Fully Automatic, Autoclave Portable: Standard / Automatic, Autoclave SLL Series: Vacuum, Autoclave SLE series • Media Preparator • Table Top Autoclaves: Normal / Class B • Rotary Vacuum Evaporator • Vacuum Controller • Chilled Water Circulator • PTFE Diaphragm Vacuum Pump • BOD Incubator • Water Still • Water Bath: Stirred (Constant) / Serological / Concentric Rings / Refrigerated Circulating Bath • Round Bath: Clear Bottom / Immersion Series • Dry Bath • Colony Counter • Anaerobic Jar: SS / Polycarbonate • Pipette & Petri Dish Sterilizing Box • Test Tube Rack • ESR Westergren Apparatus • Slide Staining Stand / Rack / Trough • Slide Trays • Slide Cabinet • Test Tube Caps • Spreader • Cork Borer

All electrical appliances work on 230VAC, 50Hz, single phase. Other Voltages available on request.  
Due to continuous improvement in design, the product supplied may have modified features.



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